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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,627	04/25/2005	Leslie M Landsberger	14836-9US AD/mb	6804
20988 OGILVY RENA	7590 05/15/200 AULT LLP	EXAMINER		
1981 MCGILL	COLLEGE AVENUE	GRAYBILL, DAVID E		
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## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/532,627	LANDSBERGER, LESLIE M	
Office Action Summary	Examiner	Art Unit	
	David E. Graybill	2822	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perions are reply within the set or extended period for reply will, by stating the provided by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	N. imely filed in the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on <u>03</u> 2a) This action is <b>FINAL</b> . 2b) ☑ The 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, p		
Disposition of Claims			
4) ☐ Claim(s) 1-18 20-32 34-43 is/are pending in 4a) Of the above claim(s) is/are withdom 5) ☐ Claim(s) 1-18 and 20-31 is/are allowed. 6) ☐ Claim(s) 32,34-36 and 40 is/are rejected. 7) ☐ Claim(s) 37-39 and 41-43 is/are objected to. 8) ☐ Claim(s) are subject to restriction and Application Papers	rawn from consideration.		
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a specificant may not request that any objection to the Replacement drawing sheet(s) including the correction.  The oath or declaration is objected to by the specific specif	ccepted or b) objected to by the ne drawing(s) be held in abeyance. Se ection is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:      1. ☐ Certified copies of the priority docume 2. ☐ Certified copies of the priority docume 3. ☐ Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a limit	ents have been received. ents have been received in Applica riority documents have been receive eau (PCT Rule 17.2(a)).	tion No ved in this National Stage	
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4)  Interview Summar Paper No(s)/Mail I 5)  Notice of Informal 6)  Other:	Date	

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2-29-8 has been entered.

In the rejections infra, generally, reference labels are recited only for the first recitation of identical claim elements.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 32, 34, 35 and 40 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Lal (20020179162).

At paragraphs 23-26, 28 and 41, Lal discloses the following:

Re claim 32: A packaged integrated circuit comprising: a substrate 21 having at least one micro-structure 32 suspended above a micro-cavity 24; a packaging 28, 30 enclosing said substrate; a protective layer of material

28, 30 substantially filling said packaging, wherein said protective material is in a solid state at room temperature and inherently can protect said microstructure during silicon wafer dicing procedures and subsequent packaging; and an unobstructed volume above said micro-structure and below said micro-structure to provide said micro-cavity.

34: A packaged integrated circuit as claimed in claim 32, wherein said protective layer of material 28 is a photosensitive material.

35: A packaged integrated circuit as claimed in claim 32, wherein said protective layer of material is a porous 49, 50, 51 material 30.

40: A packaged integrated circuit as claimed in claim 32, wherein said substrate comprises a plurality of micro-structures suspended above said micro-cavity.

To further clarify the disclosure wherein the protective material inherently can protect said micro-structure during silicon wafer dicing procedures and subsequent packaging, the language "can protect said micro-structure during silicon wafer dicing procedures and subsequent packaging," is a statement of intended use of the material that does not appear to result in a structural difference between the claimed material and the material of Lal. Further, because the material of Lal appears to have the same structure as the claimed material, it appears to be capable of being used for the intended uses, and the statement of intended use does not

patentably distinguish the claimed material from the material of Lal. The manner in which a product operates is not germane to the issue of patentability of the product; Ex parte Wikdahl 10 USPO 2d 1546, 1548 (BPAI 1989); Ex parte McCullough 7 USPQ 2d 1889, 1891 (BPAI 1988); In re Finsterwalder 168 USPQ 530 (CCPA 1971); In re Casey 152 USPQ 235, 238 (CCPA 1967). Also, "Expressions relating the apparatus to contents thereof during an intended operation are of no significance in determining patentability of the apparatus claim."; Ex parte Thibault, 164 USPQ 666, 667 (Bd. App. 1969). And, "Inclusion of material or article worked upon by a structure being claimed does not impart patentability to the claims."; In re Young, 25 USPQ 69 (CCPA 1935) (as restated in In re Otto, 136 USPQ 458, 459 (CCPA 1963)). And, claims directed to product must be distinguished from the prior art in terms of structure rather than function. In re Danley, 120 USPQ 528, 531 (CCPA 1959). "Apparatus claims cover what a device is, not what a device does [or is intended to do]." Hewlett-Packard Co. v. Bausch & Lomb Inc., 15 USPQ2d 1525, 1528 (Fed. Cir. 1990).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

<sup>(</sup>a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lal as applied to claim 32, and further in combination with O'Conner (20020185184).

Lal does not appear to explicitly disclose the following:

36: A packaged integrated circuit as claimed in claim 32, wherein said protective layer of material is a foamed material.

Nonetheless, Lal discloses wherein the protective layer of material is a photoresist. In addition, at paragraph 72, O'Conner discloses that photoresist and foamed material "foams" are alternatives and equivalents. Therefore, as reasoned from well established legal precedent, it would have been obvious to substitute or combine the foamed material of O'Conner for or with the photoresist of Lal. See In re May (CCPA) 136 USPQ 208 (It is our opinion that the substitution of Wille's type seal for the cement of Hallauer in Figure 1 would be obvious to persons of ordinary skill in the art from the disclosures of these references, merely involving an obvious selection between known alternatives in the art and the application of routine technical skills.); In re Cornish (CCPA) 125 USPQ 413; In re Soucy (CCPA) 153 USPQ 816; Sabel et al. v. The Wickes Corporation et al. (DC SC) 175 USPQ 3; Ex parte Seiko Koko Kabushiki Kaisha Co. (BdPatApp&Int) 225 USPQ 1260; and Ex parte Rachlin (BdPatApp&Int) 151 USPQ 56. See also Smith v. Hayashi, 209 USPQ 754 (Bd. of Pat. Inter. 1980) (However, there

was evidence that both phthalocyanine and selenium were known photoconductors in the art of electrophotography. "This, in our view, presents strong evidence of obviousness in substituting one for the other in an electrophotographic environment as a photoconductor." 209 USPQ at 759.). An express suggestion to substitute one equivalent component or process for another is not necessary to render such substitution obvious. In re Fout, 675 F.2d 297, 213 USPQ 532 (CCPA 1982). "It is prima facie obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose.... [T]he idea of combining them flows logically from their having been individually taught in the prior art." In re Kerkhoven, 626 F.2d 846, 850, 205 USPQ 1069, 1072 (CCPA 1980) (citations omitted). See also In re Crockett, 279 F.2d 274, 126 USPQ 186 (CCPA 1960); Ex parte Quadranti, 25 USPQ2d 1071 (Bd. Pat. App. & Inter. 1992).

Furthermore, it would have been obvious to substitute or combine the foamed material of O'Conner for or with the photoresist of Lal because the substitution of or combination with one known element for or with another would have yielded predictable results to one of ordinary skill in the art at the time of the invention. KSR International Co. v. Teleflex Inc., 82 USPQ2d 1385 (U.S. 2007).

Claims 1-18 and 20-31 are allowed.

Claims 37-39 and 41-43 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

For information on the status of this application applicant should check PAIR: Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alternatively, applicant may contact the File Information Unit at (703) 308-2733. Telephone status inquiries should not be directed to the examiner. See MPEP 1730VIC, MPEP 203.08 and MPEP 102.

Any other telephone inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Graybill at (571) 272-1930. Regular office hours: Monday through Friday, 8:30 a.m. to 6:00 p.m.

The fax phone number for group 2800 is (571) 273-8300.

/David E Graybill/ Primary Examiner, Art Unit 2822